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TITLE: COATED METAL PARTICLE AND ELECTROPHOTOGRAPHIC TONER USING THAT

PUBN-DATE: February 8, 2000

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APPL-NO: JP10205579

APPL-DATE: July 21, 1998

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## ABSTRACT:

PROBLEM TO BE SOLVED: To obtain metal coated fine particles having excellent uniformity and stability of the coating layer by constituting a metal core particle and a polymer coating layer which covers the outer surface of the core, and chemically bonding the polymer compd. which constitutes the polymer coating layer to the surface of the metal core particle.

SOLUTION: This polymer coated metal fine particle consists of a metal core particles and a polymer coating layer which covers the outer surface of the core particle, and the polymer compd. which constitutes the polymer coating layer is chemically bonded to the surface of the metal core particle. Thereby, the polymer coated metal fine particles have high affinity with an org. solvent, resin or the like, and can be easily dispersed. By controlling the amt. of the coating polymer, electric characteristics such as electric resistance of the particles can be controlled. Moreover, since the coating polymer is chemically bonded to the metal core particle, the obtd. particles have enough mechanical strength to endure against treatment such as severe dispersion and can be effectively used in any fields using metal fine particles.

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